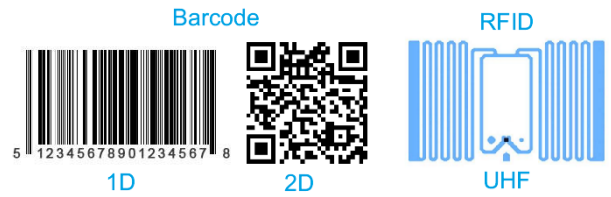


USB 扫描枪-Uscanner



- **Product model:** IVF-BU04U
- **Product overview:**
- IVF-BU04U is based on the second evolution of the scanner BU04. It can be connected to the windows system through the USB interface and used as a USB analog serial port. Integrated two-dimensional barcode reading engine and UHF RFID reading and writing module, using advanced CMOS image recognition technology, intelligent image recognition system, can easily read the bar code on paper, goods and other media, while identifying the RFID information on the media.

➤ **Parameter specifications:**

- 1) support ultra-high frequency (UHF) label protocol ISO18000-6C
- 2) Support system: Windows, IOS, Android, etc.
- 3) Communication interface: USB
- 4) RFID reading distance: 2-20cm (depending on the size of the tag)
- 5) 1D/2D reading distance: 20mm~310mm, 1 million pixels

Readable Code System:

①1D: UPC-A, UPC-E, UPC-E1, EAN-8, EAN-13, EAN-14, EAN-128, UCC128, ISBN/ISSN, CODE11, CODE32, CODE39, CODE39 Full ASCII , CODE93, CODE128, ITF 25 codes, Industrial 25 codes, Matrix 25 codes, China post codes, UK/Plessey, GS1, etc.

②2D: QR Code, Data Matrix, PDF417, etc.

6) Working hours: 1.5mA in dormancy, 62mA in standby

7) Material: ABS+PC engineering plastics

8) Built-in battery: 2400mA rechargeable lithium battery

9) buzzer: built-in buzzer

10) button: press to trigger reading

11) Operation temperature: -20°C~50°C

12) indicator status

● Red light:

① Constant on: charging;

② Turn off: charging is completed;

● Green light:

① Constant on: normal working;

② Off: in standby (return to constant on after pressing the key)

③ Blinking: waking up (return to normal after one second)

● White light:

① Flashing: reading the two-dimensional code or RFID indication (at the same time the buzzer sounds);

13) Mode switching: AT+BU04=1 —— 1D/2D mode;

AT+BU04=2 —— 1D/2D+RFID mode; (Send information only after reading both of them)

AT+BU04=3 —— 1D/2D or RFID mode; (Send information once read one kind)

➤ **How to use:**

1. Win7&Win8 system below, if it cannot identify , please install the corresponding serial port driver [USB driver (Win7&Win8).zip];
2. Use the serial debugging assistant to configure the corresponding port number, baud rate 115200/check bit N/data bit 8/stop bit 1 can receive data normally.
3. Press and hold the button until the buzzer "drops", indicating sweep, and then release the button.

IVF-BU04U Uscanner “AT” command description

1.AT+BU04=1

Function: The mode is set to: Scan the QR code

Reply: OK

2.AT+BU04=2

Function: The mode is set to: Scan the QR code and RFID at the same time

Reply: OK

3.AT+BU04=3 (the default mode)

Function: The mode is set to: scan QR code or RFID

Reply: OK

4.AT+BU04?

Function: Get the current mode

Reply: AT+BU04=1(2,3)

5.AT?

Function: Get the connection status of the Uscanner

- a. Reply: OK, it means that the Uscanner and COM port are connected normally;
- b. No Reply: it means the connection between the Uscanner and the COM port is abnormal.

6.AT+RESET=1

Function: reset Uscanner

Reply: OK

7. Wrong AT command

Reply: Wrong AT Command!

8. Scan code output format example

- a. When scanning a QR code or RFID, the scanned data will be displayed directly on the serial terminal, as shown in the figure below

```
[2021-05-19 15:17:07.916]# RECV ASCII>
OK
[2021-05-19 15:17:34.842]# RECV ASCII>
00B07A139C56495008003484 ← RFID
[2021-05-19 15:17:35.496]# RECV ASCII>
00B07A139C56495008003484
[2021-05-19 15:17:36.182]# RECV ASCII>
2000103883577 ← QR code
[2021-05-19 15:17:37.523]# RECV ASCII>
2000103883577
```

b. When scanning QR code and RFID at the same time, QR code is displayed first, then the next line shows the RFID data, as shown in the figure below:

```
[2021-05-19 14:52:06.892]# RECV ASCII>
2000103883577
00B07A139C56495008003484
[2021-05-19 14:52:12.318]# RECV ASCII>
2000103883577 ← QR code
00B07A139C56495008003484 ← RFID
[2021-05-19 14:52:15.892]# RECV ASCII>
6942674934127
00B07A139C56495008003484
```